



**A Type Catalog of Fossil Invertebrates
(Mollusca: Coleoidea,
Monoplacophora and Scaphopoda)
in the Yale Peabody Museum**

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Abstract

Type material for 16 nominal species of fossil Coleoidea, Monoplacophora and Scaphopoda are in the Invertebrate Paleontology Collections of Yale University's Peabody Museum of Natural History. Primary types for 6 nominal species include 4 holotypes, and 4 syntypes (representing 2 nominal species). Secondary types for 2 nominal species include 2 paratypes. Tertiary types for 6 nominal species include 19 hypotypes. Most types are from New York, Nova Scotia, Oklahoma and South Dakota and have been described by J.S. Peel, P.E. Raymond, L.W. Stephenson and K.M. Waage.

Key Words

Type Catalog, Coleoidea, Monoplacophora, Scaphopoda, Yale Peabody Museum, New York, Nova Scotia, Oklahoma, South Dakota, J.S. Peel, P.E. Raymond, L.W. Stephenson and K.M. Waage.

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Introduction

This catalog lists all known fossil coleoid, monoplacophoran and scaphopod types in the Invertebrate Paleontology Collections housed in Yale University's Peabody Museum of Natural History. This is the eighth in a series of type catalogs of fossil invertebrates and is a product of an ongoing computerization project to improve the accessibility of the type collections.

Organization

Specimens are listed under the originally described binomen; genera and species within genera are indexed alphabetically. Each entry includes the catalog number used by the Division of Invertebrate Paleontology prefixed with the abbreviation YPM and the type status of the original designation, followed by all known references to that name. Any subsequent designations are listed under the original designation and are cross-referenced in the body of the text. Locality descriptions follow each entry or set of entries for each binomen. Errors and inconsistencies are footnoted at the bottom of each binomen.

The type designations used are holotype and syntype for name bearers; paratype for secondary types; hypotype for all tertiary types. Name bearers and secondary types are defined as used in the *International Code of Zoological Nomenclature* (ICZN, 1985). Tertiary types or hypotypes are treated here as any described, figured or measured specimen used in a publication to augment the knowledge of a previously

defined species, or any referred specimen that cannot be placed unequivocally in a known species (e.g. *Dentalium* sp.).

Locality descriptions follow each entry or set of entries with identical locality data. The locality information includes the stratigraphy, geography, collector and date. Stratigraphy has been standardized using *Stratigraphic Nomenclature Databases for the United States, its Possessions and Territories* (MacLachlan et al. 1992).

Catalog of Coleoidea

Actinosepia canadensis Whiteaves

HYPOTYPE YPM 24808

Waage, K.M. 1965. Postilla (Peabody Mus. Nat. Hist., Yale Univ.) n.94, p.18, tbl.2.

Late Cretaceous, Maastrichtian, Fox Hills Fm, Trail City Mbr, *Actinosepia* Layer, Little Eagle Lithofacies. Float, irregularly shaped spur with narrow SE-trending tip downfaulted so that lower barren concretions cap it, 0.3 mi E of SD Rt. 63, SE of O'Leary Ranch house, and about 1 mi N of Moreau River, and 3.8 mi NNE of Green Grass, Parade NW Quad., NE SW SE sec32T15NR24E, Dewey Co., South Dakota, USA. Collector: Waage, K.M., 1959.

HYPOTYPE YPM 24809

Waage, K.M. 1965. Postilla (Peabody Mus. Nat. Hist., Yale Univ.) n.94, p.18, tbl.2, pl.1, f.4,5.

Late Cretaceous, Maastrichtian, Fox Hills Fm, Trail City Mbr, Little Eagle Lithofacies, Upper *nicolleti* Assemblage Zone. Concretion, about in place, exposures on hill slope immediately E of E abutment of stock dam, about 0.5 mi N of Johnson Brothers Ranch house, and 6 mi S of Little Eagle, Little Eagle SE Quad., NW CORNER NE NW sec29T19NR27E, Corson Co., South Dakota, USA. Collector: Waage, K.M.

HYPOTYPE YPM 24810

Waage, K.M. 1965. Postilla (Peabody Mus. Nat. Hist., Yale Univ.) n.94, p.18, pl.4, f.1.

Late Cretaceous, Maastrichtian, Fox Hills Fm, lower Trail City Mbr, Irish Creek Lithofacies. Lower Irish Creek, bluff on E side of Moreau River, above meander (abandoned in 1962), and 7.5 mi ENE of Thunder Butte Village, Dupree NE Quad., E SW SW NW sec35T15NR21E, Ziebach Co., South Dakota, USA. Collector: Waage, K.M., 1962.

HYPOTYPE YPM 24811

Waage, K.M. 1965. Postilla (Peabody Mus. Nat. Hist., Yale Univ.) n.94, p.18, tbl.2.

Late Cretaceous, Maastrichtian, Fox Hills Fm, lower Trail City Mbr, Little Eagle Lithofacies. Float, tip of ESE-pointing spur, SW across draw from Peabody Locality C0008, Whitehorse Ridge, and 6 mi NW of Whitehorse, Whitehorse Quad., CENTER SE SE SE sec19T16NR26E, Dewey Co., South Dakota, USA. Collector: Waage, K.M., 1957.

HYPOTYPE YPM 24812

Waage, K.M. 1965. Postilla (Peabody Mus. Nat. Hist., Yale Univ.) n.94, p.18, pl.4, f.3.

Late Cretaceous, Maastrichtian, Fox Hills Fm, Timber Lake Mbr. Float, on and at base of face, SW slope of prominent butte on divide between Red Earth Creek and Meadow Creek, 4.5 mi NNW of Green Grass, Lantry NE Quad., CENTER NE SW sec27T15NR23E, Dewey Co., South Dakota, USA. Collector: Waage, K.M., 1957.

HYPOTYPE YPM 24813

Waage, K.M. 1965. Postilla (Peabody Mus. Nat. Hist., Yale Univ.) n.94, p.18, pl.3, f.3, pl.4, f.2.

Late Cretaceous, Maastrichtian, Fox Hills Fm, Timber Lake Mbr, *Tancredia-Ophiomorpha* Biofacies. Cut on E side of county road connecting SD Rt. 65 and Bullhead, near top of the hill 1 mi NW of Bullhead, Bullhead Quad., CENTER W SE SE sec14T21NR24E, Corson Co., South Dakota, USA. Collector: Waage, K.M., Speden, I.G. and Speden, E.W., 1962 to 1963.

PLASTER CAST OF HOLOTYPE YPM 35100[†]

Waage, K.M. 1965. Postilla (Peabody Mus. Nat. Hist., Yale Univ.) n.94, p.18.

Late Cretaceous, Bearpaw Shale. Opposite the mouth of Swift Current Creek, Saskatchewan, Canada. Collector: Weston, T.C., 1889.

PLASTER CAST OF HYPOTYPE YPM 35101^{††}

Waage, K.M. 1965. Postilla (Peabody Mus. Nat. Hist., Yale Univ.) n.94, p.18, pl.2, f.2,3, pl.3, f.1,2.

Late Cretaceous, Bearpaw Shale. 290 ft above base of Bearpaw, Manyberries section, SE corner of Alberta, sec30T5NR4W, Alberta, Canada. Collector: Landes, R.W., 1934 to 1936.

[†]This is a replica of the holotype (GSC 5379), deposited at the Geological Survey of Canada.

^{††}This is a replica of the hypotype (GSC 19888),
reposited at the Geological Survey of Canada.

***Sepia* sp.**

HYPOTYPE YPM 24814

Waage, K.M. 1965. Postilla (Peabody Mus.
Nat. Hist., Yale Univ.) n.94, p.18, pl.4, f.4.

Quaternary, Recent.[†]

[†]No locality data is available for this specimen.

Catalog of Monoplacophora

***Archinacella ? propria* Raymond**

HOLOTYPE YPM 26957

Raymond, P.E. 1906. Ann. Carnegie Mus.
v.3, n.4, p.575.

Raymond, P.E. 1908. Ann. Carnegie Mus.
v.4, n.3-4, p.172, pl.26, f.7,8.

Middle Ordovician, Chazy Grp. From ledge in field
N of Duprey Road to Tracy Brook (middle of section
of Brainard and Seeley), near Chazy, Clinton Co.,
New York, USA. Collector: Raymond, P.E., 1903.

***Archinacella deformata* (Hall)**

HYPOTYPE YPM 26956

Raymond, P.E. 1908. Ann. Carnegie Mus.
v.4, n.3-4, p.172, pl.46, f.3.

Middle Ordovician, Aylmer Sandstone. Aylmer,
Quebec, Canada. Collector: Sowter, T.E.

***Lepetopsis ? haworthi* (Beede)**

HYPOTYPE YPM 15326

Knight, J.B. 1940. Bull. Geol. Soc. Am. v.51,
p.302, pl.4, f.1b.

Late Permian, Whitehorse Grp, Rush Springs Fm,
Dozier Sandstone Mbr. Base of Dozier on summit
of Mt. Nebo on the N side of highway, 3 mi W of
Estelline (Hall Co.), Collingsworth Co., Texas, USA.
Collector: Roth, R.I.

***Palaeacmaea irregularis* Raymond**

SYNTYPE YPM 26962[†]

Raymond, P.E. 1905. Am. J. Sci. ser.4,
v.20, n.119, p.376.

Raymond, P.E. 1908. Ann. Carnegie Mus.
v.4, n.3-4, p.174, pl.54, f.10.

SYNTYPE YPM 26963[†]

Raymond, P.E. 1905. Am. J. Sci. ser.4,
v.20, n.119, p.376.

Raymond, P.E. 1908. Ann. Carnegie Mus.
v.4, n.3-4, p.174, pl.54, f.11.

SYNTYPE YPM 26964[†]

Raymond, P.E. 1905. Am. J. Sci. ser.4, v.20,
n.119, p.376.

Raymond, P.E. 1908. Ann. Carnegie Mus.
v.4, n.3-4, p.174, pl.54, f.12.

Middle Ordovician, Chazy Grp. From ledge in field N
of Duprey Road to Tracy Brook (middle of section of
Brainard and Seeley), near Chazy, Clinton County,
New York, USA. Collector: Raymond, P.E., 1903.

[†]This specimen is described as a "cotype" of
Palaeacmaea irregularis Raymond, although it was
neither mentioned or figured in Raymond (1905).

***Palaeacmaea magnifica* Twenhofel**

HOLOTYPE YPM 10370

Twenhofel, W.H. 1928. Mem. Geol. Surv.
Can. n.154, p.235, pl.26, f.10.

Ordovician, English Head Fm, English Head
zone 4, Three Brook Bay, Anticosti Island, Quebec,
Canada. Collector: Twenhofel, W.H., 1909.

***Pilina cheyennica* Peel**

HOLOTYPE YPM 74

Peel, J.S. 1977. J. Paleont. v.51, n.1,
p.117, tf.1-3.

Peel, J.S. 1984. Spec. Pap. Paleont. n.32,
p.177, tf.3g.

Silurian, Chimneyhill Limestone, Keel Mbr. Near
base of Chimneyhill, cement quarries at Lawrence,
Pontotoc Co., Oklahoma, USA. Collector:
Schuchert, C., 1922?

***Proplina elongata* Cullison**

PARATYPE YPM 17134

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri
Univ. Sch. Mines Met. v.15, n.2, p.50, pl.25,
f.22,23.

Early Ordovician, Jefferson City Grp, Rich Fountain
Fm. Residual chert, *Jeffersonia* trilobite zone, base
of hill on N side of Moreau River and on E side of
U.S. Hwy 63, SW1/4SW1/4sec27T44NR11W, Cole
Co., Missouri, USA. Collector: Cullison, J.S.

***Proplina grandis* Cullison**

PARATYPE YPM 17138

Cullison, J.S. 1944. Bull. Tech. Ser. Missouri Univ. Sch. Mines Met. v.15, n.2, p.51.

Early Ordovician, Theodosia Fm. Lower Theodosia, elevation 1000 ft, S of road junction, center W1/2sec02T21NR25W, Barry Co., Missouri, USA. Collector: Cullison, J.S.

***Scenella montrealensis* (Billings)**

HYPOTYPE YPM 26958

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.173, pl.46, f.9.

HYPOTYPE YPM 26959

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.173, pl.46, f.10.

Middle Ordovician, Chazy Grp. From ledge in field N of Duprey Road to Tracy Brook (middle of section of Brainard and Seeley), near Chazy, Clinton Co., New York, USA. Collector: Raymond, P.E., 1903.

***Scenella pretensa* Raymond**

HOLOTYPE? YPM 26960[†]

Raymond, P.E. 1905. Am. J. Sci. ser.4, v.20, n.119, p.375.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.174, pl.46, f.11-13.

Middle Ordovician, Chazy Grp. Lenoirs, Loudon Co., Tennessee, USA.

[†]This specimen was described as the "type" of *Scenella pretensa* Raymond, although it was neither mentioned nor figured in Raymond (1905).

***Scenella robusta* Raymond**

PARATYPE? YPM 26961[†]

Raymond, P.E. 1905. Am. J. Sci. ser.4, v.20, n.119, p.376.

Raymond, P.E. 1908. Ann. Carnegie Mus. v.4, n.3-4, p.174, pl.47, f.2,3.

Middle Ordovician, Chazy Grp. Lenoirs, Loudon Co., Tennessee, USA.

[†]This specimen is labeled as a "paratype" of *Scenella robusta* Raymond, although it was neither figured nor mentioned in Raymond (1905).

Catalog of Scaphopoda

***Dentalium hexagonum* Van Ingen**

SYNTYPE YPM 35573

Van Ingen, G. 1905. G.P. Putnam's Sons, New York and London. p.363, pl.B, f.1.

Late Cretaceous, Senonian. Vicinity of Kerak, Jordan Valley, Syria. Collector: Libbey, W., Jr., 1902.

***Dentalium* sp.**

HYPOTYPE YPM 14847A

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.398, pl.5, f.8.

HYPOTYPE YPM 14847B

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.398, pl.5, f.9.

HYPOTYPE YPM 14847C

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.398, pl.5, f.10.

HYPOTYPE YPM 14848

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.398.

Late Cretaceous. Loose boulder brought up in a fisherman's trawl, from a depth of 200 fathoms, eastern part of Banquereau bank, off Sable Island, Nova Scotia, Canada. Collector: Olson, L.

***Dentalium* sp. (smooth)**

HYPOTYPE YPM 14849

Stephenson, L.W. 1936. Bull. Geol. Soc. Am. v.47, p.399, pl.5, f.11-12.

Late Cretaceous. Loose boulder brought up in a fisherman's trawl, from a depth of 200 fathoms, eastern part of Banquereau bank, off Sable Island, Nova Scotia, Canada. Collector: Olson, L.

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Related type catalogs in this series

- White, R.D.** 1995. A type catalog of fossil invertebrates (Arthropoda: Hexapoda) in the Yale Peabody Museum. *Postilla*, 209: 1-55.
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- 1997. A type catalog of fossil invertebrates (Archaeocyatha, Porifera, Receptaculitidae and Stromatoporoidea) in the Yale Peabody Museum. *Postilla*, 213: 1-23.
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